



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of: BROWN, David C.

RECEIVED
OCT - 3 2001
Group Art Unit: 2834
TC 2800 MAIL ROOM

Serial No. 09/758,078

Examiner: Perez, G.

Filed: January 10, 2001

Atty. Dkt. No: OSPD91-US

For: ROTARY DEVICE WITH MATCHED EXPANSION CERAMIC BEARINGS

7/a
Hawkins
10/3/01

To: Assistant Commissioner of Patents
Box No Fee/Amendment
Washington, D.C. 20231

From:



CERTIFICATE OF MAILING 37 CFR 1.8: I certify that this correspondence is being deposited on the below date with the U.S. Postal Service with sufficient postage as FIRST CLASS MAIL addressed to: Assistant Commissioner of Patents, Washington, DC 20231.

Date: 09/28/2001 [X] Debra A. Stengel
[] Vernon C. Maine, Reg. No. 37,389 or [] Scott J. Asmus, Reg. No. 42,269

AMENDMENT UNDER 37 CFR 1.85 and 1.115

In response to the Office Action of June 28, 2001, please amend the above-identified application as follows:

IN THE SPECIFICATION:

Please replace the paragraph beginning at page 9, line 6, with the following rewritten paragraph:

a'
Housing 10 encloses stator 1 with its stator winding 4, and rotor 2. Rotor 2 is supported at the rear and front ends of housing 10 by ceramic bearing assemblies 5 and 6 respectively. Bearing assemblies 5 and 6 are functionally identical, each having a ceramic inner race 21, attached by a glue joint 8 to a respective end of rotor 2, and an outer race 25, attached by a glue joint 11 to a respective end of stator 1. Stator 1 is in turn secured by glue joint 7 within housing 10. Housing 10, stator 1 and rotor 2 are all fabricated using matched expansion, nickel-iron alloy ratios generally between 30/70% and 70/30% as is required to match the thermal expansion characteristics of the ceramic bearing assemblies in the normal temperature range of the device.